

### **ABSTRACT OF THE DISCLOSURE**

[0054] The invention is a multi-catalyst injection system. In one embodiment, the system comprises a vessel suitable for storing fluid cracking catalyst and having a separator defining at least two compartments within the vessel. A plenum is defined in the vessel and is fluidly coupled to each of the compartments. A plurality of dispense mechanisms are respectively coupled to a respective compartment to control the flow of catalyst from the injection system.